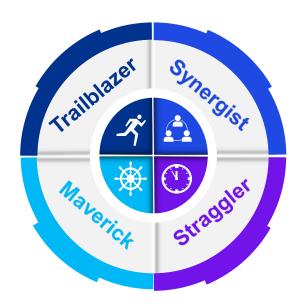


Initially perceived as a potential threat to academic integrity and critical thinking, Generative AI (GenAI) is now valued for its transformative potential. Higher education institutions are adopting GenAI technologies to enhance educational outcomes, streamline operations, and foster innovation. Here we explore how various institutions approach the evolution towards embracing GenAI as an ally.

### **Initial Perspective on GenAl**

Colleges and universities initially approached GenAl with caution, fearing it could lead to academic dishonesty and undermine intellectual rigor. They were concerned that GenAl's humanlike text generation could encourage students to complete assignments dishonestly and bypass traditional learning, weakening their critical thinking and reasoning skills. Essentially, institutions wondered if this technology is a threat to their mission of educating students.

Despite these valid concerns, institutions recognized that GenAl could be a powerful tool to fulfill their mission, particularly through automation, personalized learning, and operational efficiencies. The key challenge was to balance harnessing GenAl's benefits while addressing its potential risks.



### **Evolving Perspectives & Adoption Approaches**

In recent days, the perception about GenAI at colleges and universities have evolved. They started forming an allyship with GenAI, leading to varied approaches in integrating GenAI into their operations. A range of factors drives the shift from initial apprehension to strategic AI adoption. Drawing on extensive interactions with academic institutions, KPMG has identified four categories based on learning centers' level of engagement and resource allocation:

- 1. Trailblazers: These forward-thinking institutions are at the forefront of GenAl adoption, making substantial investments and spearheading innovative applications. They cultivate dynamic ecosystems through strategic partnerships. Trailblazers continually explore groundbreaking technologies and redefine what Al can do for academia.
- **2. Synergists:** These institutions focus on collaboration with peer institutions, develop collective strategies, share investments to realize value for everyone. Synergists build networks and foster environments that enhance innovation and resource sharing across the academic community.
- 3. Mavericks: These colleges and universities prioritize independent experimentation, developing tailored GenAl solutions to address their specific needs. A Maverick might develop custom Al tools to enhance academic experiences through data analysis and personalized learning pathways. By adapting GenAl technologies to their unique institutional challenges, Mavericks promote continuous improvement and innovation in their educational offerings.
- **4. Stragglers**: Cautious and often limited by resources or outdated systems, these schools face challenges transitioning to modern Al tools. Their passive learning and minimal engagement lead to slow adoption and missed innovation opportunities, relying heavily on traditional methods and struggling to keep pace with technological advancements, limiting growth and transformation.

### Three Ways Institutions are Investing in GenAl

Institutions are adopting various strategies to leverage GenAl's transformative potential and enhance their educational offerings. Here are three primary areas that institutions are investing with respect to GenAl:

Advancing the Tech through Research

2 | Delivering Institutional Excellence

3 | Leading the Talent Agenda

Institutions are investing in AI research and infrastructure aimed at advancing GenAI technologies and applications.

Institutions are adopting AI for their internal administrative and academic purposes to improve efficiency and effectiveness. This includes using AI for personalized learning, enrollment effectiveness, curriculum management, transfer articulation, etc.

Institutions understand their role in building the workforce for the future and the need for that workforce to possess Al skills. Academicians have been creating new courses, certification programs and embedding Al in their courses to meet the future workforce demands.

By investing in research, institutional excellence, and talent development, higher education institutions are contributing to the adoption and evolution of generative AI.

## **Applications of GenAl in Higher Education**

GenAl is transforming various facets of the educational experience. Through these applications, academic institutions are enhancing educational processes and readying students for a future deeply influenced by Al technology.

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**Enhancing Course Curriculum and Personalized Learning:** Institutions are now utilizing GenAl to create personalized learning experiences, streamline grading, and provide timely interventions. Some universities have developed customized GPTs for students, faculty, and staff to engage in personalized tutoring, interactive study guides, and research assistance. Faculty can create interactive and course-specific Al tools, enhancing teaching and curriculum development.

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Optimizing Academic and Administrative Processes: Institutions are testing AI learning tools to further integrate the technology into their curricula. For example, Claude, a new Anthropic tool, encourages students to provide proof for their answers, fostering deeper engagement with the materials. Claude's functionalities include creative engagement, advanced reasoning, visual analysis, and code generation, allowing students to summarize complex information and generate personalized study plans. Some universities are using Claude to evaluate transfer syllabi, significantly improving the efficiency of this traditionally time-intensive process.



**Supporting Campus Infrastructure and Services:** Institutions are also improving campus infrastructure and services using GenAl. Some have implemented smart campus infrastructure projects, where Al manages energy consumption, optimizing building performance and reducing operational costs. Other universities are utilizing Al to enhance dining services, offering checkout-free grocery options and personalized food recommendations.



**Advancing Career Services:** Universities are leveraging AI to enhance career services, providing students with tailored job recommendations and resume building tools. For instance, AI-driven platforms teach students how to harness AI in their job search and professional development.



Innovating IT Modernization: GenAl is leveraged for modernizing their IT infrastructure, migrating legacy systems to cloud platforms to enhance agility and innovation, often collaborating with major tech companies for support. They are also upgrading to high-performance computing systems, which significantly accelerate research projects and improve overall data management capabilities.

### GenAl's Impact on Institutional Roles

Integrating GenAl into your learning requires collaboration among key stakeholders for successful adoption, strategy alignment, policy development, and governance. Though each role has a distinct perspective, their collective efforts are essential to fully harness GenAl's potential.



**Technologists** lay the groundwork for GenAl integration by focusing on infrastructure, vendor selection, and implementation logistics. They streamline IT operations and provide the necessary tech support, aligning the institution's capabilities with GenAl adoption goals.



Academicians focus on ethical applications, academic research, and curriculum evolution. They integrate Al literacy into programs, addressing plagiarism detection and ethical Al use to uphold academic integrity. Their efforts advance academic programs and research to include the latest GenAl developments.



Administrators leverage GenAl to enhance operational efficiencies and achieve institutional outcomes. Their role involves improving administrative processes, transforming the workforce, and optimizing student services. Additionally, they engage alumni and donors through targeted initiatives supported by GenAl.

Together, these stakeholders can align the institution's AI strategies, define and update policies and procedures, and support governance and synergies. These roles create a cohesive strategy that harnesses GenAI's potential to enhance educational outcomes, streamline operations, and foster innovation, that remains informed by technological advances that are ever changing.

#### A Path Forward: Considerations for Institutions

To facilitate your organization's transition from perceiving GenAl as a threat to leveraging it as a strategic asset, KPMG recommends a structured four-step approach:

## Building a Sound Policy Foundation

Institutions should develop and implement comprehensive GenAl policies. Clear guidelines are essential to promote ethical usage and mitigate risks. Institutions must define where and how GenAl should be used, ethical parameters, and methods to evaluate data sources and potential biases.

## Adopting Trusted Al

Implement a robust framework based on fairness, transparency, explainability, accountability, data integrity, reliability, security, privacy, safety, and sustainability. These principles support the design, build, and deployment of GenAl systems in a trustworthy and ethical manner, which is crucial for mitigating risks associated with GenAl.

#### Reexamining Target Operating Models

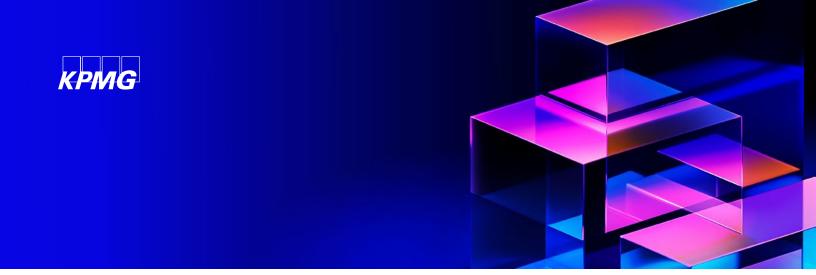
Adapt operating models to integrate GenAl. This includes revising risk and governance mechanisms, workforce strategies, performance measures, staff training, and budget allocations to support GenAl adoption. Institutions must align their technological strategies with broader institutional goals and missions.

# Leveraging the Culture of Transparency

Foster a collaborative environment where insights and developments related to GenAl are shared within and across institutions. Higher education institutions inherently possess a culture of collegiality and transparency, which can be leveraged to enhance collective learning and innovation.

## How can KPMG support your Aljourney?

KPMG Advisory blends the knowledge and experience of technologists and domain specialists to understand your unique goals and challenges, providing tailored strategies and technologies for desired outcomes. Our AI team can implement solutions effectively, while our Trusted AI framework helps establish policies and an operating model to enhance GenAI adoption. A connected campus enables the integration of AI for enhanced institutional achievements, and our workforce transformation team collaborates with departments such as HR, finance, and IT to streamline processes and transform operations. In summary, KPMG Advisory can be your trusted consulting firm for navigating the complexities of AI adoption and beyond.



## **Why KPMG**

KPMG brings the experience, resources, and commitment needed to help colleges and universities tackle today's most complex challenges. With over 500 education-focused professionals—including former university leaders and innovators—we've partnered with more than 1,450 institutions globally, offering deep expertise across academic operations, student services, and technology transformation.

Our multidisciplinary teams leverage advanced capabilities in AI, cybersecurity, cloud, and data analytics to drive sustainable growth and innovation. From compliance and risk management to financial reporting and tax strategy, KPMG provides integrated, cross-functional support tailored to higher education.

We offer purpose-built solutions like Powered Enterprise for Higher Education, helping institutions improve student services, streamline operations, and enhance outcomes. Our long-standing commitment to higher ed is reflected in our values, our partnerships, and our investments in leadership development and lifelong learning initiatives.

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